**Appendix**

Table A1. Heckman regression models of the impact of MICHR on whether proposals are awarded, and on the size of the grant award for the years 2002-2012. Models are shown for all grants.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **MODEL A1** | **MODEL A2** | **MODEL A3** |
| VARIABLES | **Funding** | **Award** | **Funding** | **Award** | **Funding** | **Award** |
|  |  |  |  |  |  |  |
| MICHR | 0.329\*\*\* | 0.771\*\*\* | 0.353\*\*\* | 0.780\*\*\* | 0.296\*\*\* | 0.772\*\*\* |
|  | (0.0376) | (0.0545) | (0.0379) | (0.0537) | (0.0375) | (0.0546) |
| *ACADEMIC UNIT* |  |  |  |  |  |  |
| *Medical School* |  |  |  |  |  |  |
| *(reference category)* |  |  |  |  |  |  |
| Dentistry |  |  | -0.467\*\*\* |  | -0.466\*\*\* |  |
|  |  |  | (0.0543) |  | (0.0532) |  |
| Engineering |  |  | -0.274\*\* |  | -0.263\*\* |  |
|  |  |  | (0.0909) |  | (0.0890) |  |
| Graduate Studies |  |  | -0.234 |  | -0.143 |  |
|  |  |  | (0.299) |  | (0.292) |  |
| ISR |  |  | -0.209\*\*\* |  | -0.179\*\*\* |  |
|  |  |  | (0.0466) |  | (0.0457) |  |
| Law |  |  | 2.117\*\*\* |  | 2.255\*\*\* |  |
|  |  |  | (0.495) |  | (0.486) |  |
| UM Library |  |  | -1.688\*\*\* |  | -1.336\*\* |  |
|  |  |  | (0.477) |  | (0.466) |  |
| LSI |  |  | -0.0752 |  | -0.00900 |  |
|  |  |  | (0.0777) |  | (0.0762) |  |
| Literature, Science & the Arts |  |  | -0.518\*\*\* |  | -0.517\*\*\* |  |
|  |  |  | (0.0532) |  | (0.0523) |  |
| Office of the President |  |  | -0.0278 |  | 0.0328 |  |
|  |  |  | (0.107) |  | (0.104) |  |
| Office of the Provost |  |  | 0.482 |  | 0.685 |  |
|  |  |  | (0.597) |  | (0.584) |  |
| Pharmacy |  |  | -0.0755 |  | -0.155 |  |
|  |  |  | (0.0871) |  | (0.0854) |  |
| Education |  |  | -1.086 |  | -0.877 |  |
|  |  |  | (1.031) |  | (1.010) |  |
| Kinesiology |  |  | -0.907\*\*\* |  | -0.832\*\*\* |  |
|  |  |  | (0.171) |  | (0.168) |  |
| Nursing |  |  | -0.810\*\*\* |  | -0.821\*\*\* |  |
|  |  |  | (0.0891) |  | (0.0873) |  |
| Public Health |  |  | 0.0122 |  | 0.0329 |  |
|  |  |  | (0.0479) |  | (0.0469) |  |
| Public Policy |  |  | -1.878\*\*\* |  | -1.648\*\*\* |  |
|  |  |  | (0.390) |  | (0.376) |  |
| Social Work |  |  | -0.706\*\*\* |  | -0.603\*\*\* |  |
|  |  |  | (0.160) |  | (0.157) |  |
| UM Hospital |  |  | 1.585 |  | 1.711\* |  |
|  |  |  | (0.812) |  | (0.782) |  |
| UM-Dearborn |  |  | -0.802 |  | -0.599 |  |
|  |  |  | (0.597) |  | (0.584) |  |
| UM-Flint |  |  | -0.766 |  | -0.499 |  |
|  |  |  | (0.596) |  | (0.587) |  |
| *GRANT TYPE* |  |  |  |  |  |  |
| *Grant* |  |  |  |  |  |  |
| *(reference category)* |  |  |  |  |  |  |
| Contract | 1.058\*\*\* |  | 0.766\*\*\* |  | 0.991\*\*\* |  |
|  | (0.137) |  | (0.143) |  | (0.138) |  |
| Cooperative Agreement | 3.426\*\*\* |  | 3.505\*\*\* |  | 3.381\*\*\* |  |
|  | (0.102) |  | (0.108) |  | (0.103) |  |
| Subcontract | 2.602\*\* |  | 2.801\*\* |  | 2.359\* |  |
|  | (0.936) |  | (0.976) |  | (0.934) |  |
| *PROPOSAL CLASS* |  |  |  |  |  |  |
| *Clinical Trial* |  |  |  |  |  |  |
| *(reference category)* |  |  |  |  |  |  |
| Instructional | 2.806\*\* |  | 2.871\*\* |  | 2.836\*\* |  |
|  | (0.936) |  | (0.957) |  | (0.938) |  |
| Off-Campus Research | 2.528\*\*\* |  | 2.573\*\*\* |  | 2.515\*\*\* |  |
|  | (0.731) |  | (0.738) |  | (0.723) |  |
| On-Campus Research | 2.451\*\*\* |  | 2.735\*\*\* |  | 2.515\*\*\* |  |
|  | (0.725) |  | (0.733) |  | (0.718) |  |
| Other Sponsored Activity | -0.597 |  | -0.426 |  | -0.586 |  |
|  | (0.730) |  | (0.738) |  | (0.723) |  |
| Research Training Grant | 1.380 |  | 1.787\* |  | 1.505\* |  |
|  | (0.726) |  | (0.733) |  | (0.719) |  |
| MEDICAL SCHOOL |  | 0.0174 |  | -0.00296 |  | -0.00611 |
|  |  | (0.0308) |  | (0.0302) |  | (0.0306) |
| CLINICAL/ TRANSLATIONAL |  | 1.503\*\*\* |  | 1.550\*\*\* |  | 1.497\*\*\* |
|  |  | (0.0465) |  | (0.0457) |  | (0.0466) |
| AWARD TYPE |  | 4.763\*\*\* |  | 4.709\*\*\* |  | 4.765\*\*\* |
|  |  | (0.0387) |  | (0.0370) |  | (0.0387) |
| Constant | 11.04\*\*\* | -2.666\*\*\* | 11.03\*\*\* | -2.307\*\*\* | 11.07\*\*\* | -2.649\*\*\* |
|  | (0.727) | (0.0664) | (0.733) | (0.0264) | (0.719) | (0.0662) |
|  |  |  |  |  |  |  |
| Observations | 66,402 | 66,402 | 66,402 | 66,402 | 66,402 | 66,402 |
| Standard errors in parentheses |
| \*\*\* p<.001, \*\* p<.01, \* p<.05 |

Table A2. Heckman regression models of the impact of MICHR on whether proposals are awarded, and on the size of the grant award for the years 2002-2012. Models are shown for CTR grants.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **MODEL A4** | **MODEL A5** | **MODEL A6** |
| VARIABLES | **Funding** | **Award** | **Funding** | **Award** | **Funding** | **Award** |
|  |  |  |  |  |  |  |
| MICHR | -0.992\*\*\* | 2.186\*\*\* | -0.990\*\*\* | 1.569\*\*\* | -0.329 | 2.408\*\*\* |
|  | (0.271) | (0.283) | (0.273) | (0.217) | (0.255) | (0.230) |
| *ACADEMIC UNIT* |  |  |  |  |  |  |
| *Medical School* |  |  |  |  |  |  |
| *(reference category)* |  |  |  |  |  |  |
| Dentistry |  |  | -1.635\*\* |  | -2.006\*\* |  |
|  |  |  | (0.586) |  | (0.672) |  |
| Graduate Studies |  |  | 2.758\*\*\* |  | 1.180 |  |
|  |  |  | (0.814) |  | (0.774) |  |
| ISR |  |  | -1.458\* |  | -0.107 |  |
|  |  |  | (0.586) |  | (0.822) |  |
| Literature, Science & the Arts |  |  | 0.0581 |  | 1.360\*\*\* |  |
|  |  |  | (0.343) |  | (0.320) |  |
| Nursing |  |  | -0.649 |  | -0.159 |  |
|  |  |  | (0.388) |  | (0.397) |  |
| Public Health |  |  | 1.196\*\*\* |  | 0.803\*\* |  |
|  |  |  | (0.298) |  | (0.280) |  |
| Social Work |  |  | 1.012\*\* |  | 1.893\*\*\* |  |
|  |  |  | (0.320) |  | (0.351) |  |
| *GRANT TYPE* |  |  |  |  |  |  |
| *Grant* |  |  |  |  |  |  |
| *(reference category)* |  |  |  |  |  |  |
| Contract | 0.667 |  | -0.0659 |  | 1.038 |  |
|  | (0.596) |  | (0.629) |  | (0.628) |  |
| Cooperative Agreement | 2.699\*\*\* |  | 3.605\*\*\* |  | 3.102\*\*\* |  |
|  | (0.248) |  | (0.185) |  | (0.237) |  |
| *PROPOSAL CLASS* |  |  |  |  |  |  |
| *Clinical Trial* |  |  |  |  |  |  |
| *(reference category)* |  |  |  |  |  |  |
| Instructional | 1.097 |  |  |  |  |  |
|  | (0.775) |  |  |  |  |  |
| Off-Campus Research | 0.928 |  | -1.166 |  | 0.426 |  |
|  | (0.750) |  | (0.716) |  | (0.696) |  |
| On-Campus Research | 2.862\*\*\* |  | 3.158\*\*\* |  | 2.395\*\*\* |  |
|  | (0.460) |  | (0.594) |  | (0.468) |  |
| Other Sponsored Activity | -1.496\* |  | -1.408 |  | -1.679\* |  |
|  | (0.711) |  | (0.841) |  | (0.749) |  |
| Research Training Grant | 2.369\*\*\* |  | 2.615\*\*\* |  | 2.313\*\*\* |  |
|  | (0.474) |  | (0.595) |  | (0.486) |  |
| MEDICAL SCHOOL |  | 0.165\* |  | 0.437\*\*\* |  | 0.472\*\*\* |
|  |  | (0.0818) |  | (0.0914) |  | (0.107) |
| Constant | 12.48\*\*\* | -0.0649 | 12.71\*\*\* | -0.725\*\*\* | 12.59\*\*\* | -0.407\*\* |
|  | (0.530) | (0.135) | (0.593) | (0.0839) | (0.543) | (0.130) |
|  |  |  |  |  |  |  |
| Observations | 1,509 | 1,509 | 1,509 | 1,509 | 1,509 | 1,509 |
| Standard errors in parentheses |
| \*\*\* p<.001, \*\* p<.01, \* p<.05 |

Table A3. Submitted CTR proposals grouped by academic units at U-M for the years 2002-2012. In descending order, the top five units for CTR proposal submissions are: Medical School, Dentistry, Nursing, Pharmacy, and Public Health.

|  |  |  |
| --- | --- | --- |
| **UNITNAME** | **Number of CTR Proposals** | **Percentage of U-M CTR Proposals** |
| Dentistry | 233 | 2.69% |
| Engineering | 1 | 0.01% |
| Graduate Studies | 24 | 0.28% |
| ISR | 23 | 0.27% |
| LSI | 6 | 0.07% |
| Literature, Science & the Arts | 72 | 0.83% |
| Medical School | 7,799 | 90.14% |
| Office of the Provost | 9 | 0.10% |
| Pharmacy | 113 | 1.31% |
| Information | 30 | 0.35% |
| Kinesiology | 1 | 0.01% |
| Nursing | 132 | 1.53% |
| Public Health | 77 | 0.89% |
| Social Work | 60 | 0.69% |
| UM Hospital | 18 | 0.21% |
| UM-Dearborn | 3 | 0.03% |
| UM-Flint | 51 | 0.59% |
| *Total* | *8,652* | *100.00%* |